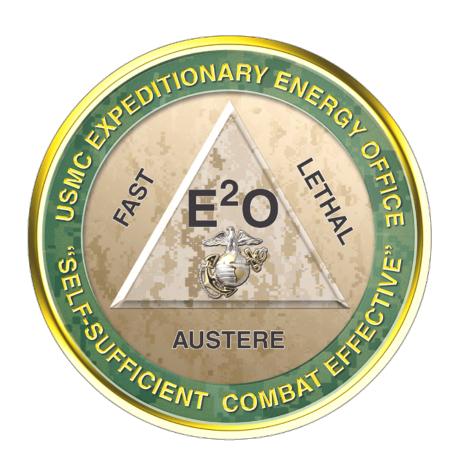
USMC Expeditionary Energy



E2S2 Brief May 11

Captain Brandon Newell Expeditionary Energy Office (E²O)

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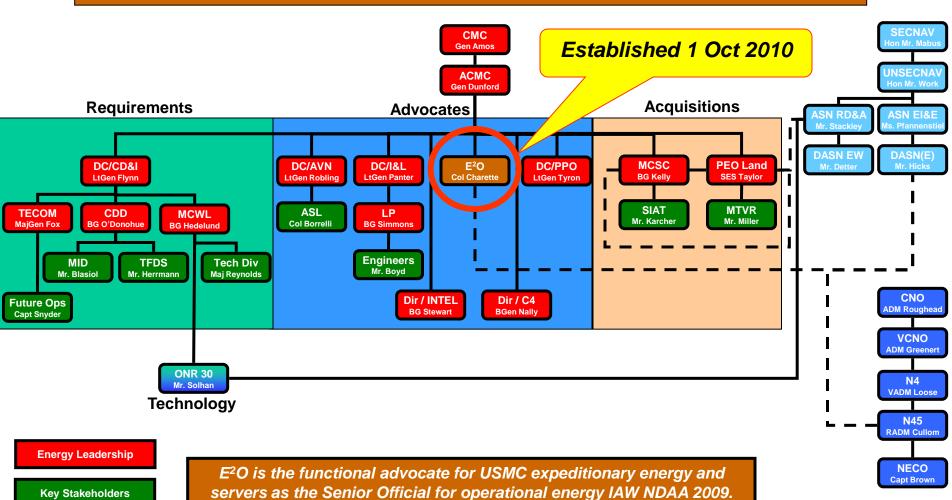
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USMC Operational Energy Stakeholders



"The <u>Marine Corps Expeditionary Energy Office</u> will <u>analyze</u>, <u>develop</u>, and <u>direct</u> the Marine Corps' energy strategy in order to <u>optimize expeditionary capabilities</u> across <u>all Warfighting functions</u>."

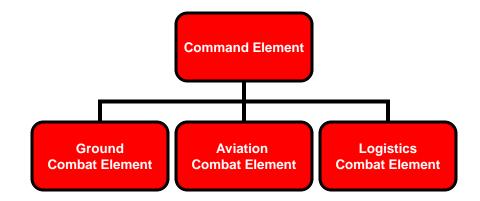




USMC Organizational Construct



- Marine Air Ground Task Force (MAGTF)
 - Special Purpose MAGTF
 - ~150 Marines
 - 72 hours sustainment
 - Marine Expeditionary Unit (MEU)
 - ~1500 3 K Marines
 - 15 days of supply
 - Marine Expeditionary Brigade (MEB)
 - ~3K 20K Marines
 - 30 days of supply
 - Marine Expeditionary Force (MEF)
 - 20K 90K Marines
- MAGTFs are self-contained and self-sufficient
 - "Plug and Play" into Joint Force
 - Operate from the Sea and at Sea
 - Sustained Operations Ashore
 - Humanitarian Relief

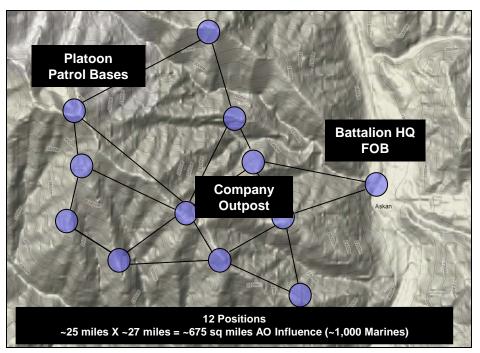


"Middle Weight Force in Readiness"

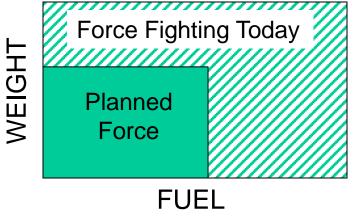


Today's MAGTF Challenge Distributed Operations





- 250% Increase in Radios
- 300% Increase in IT/Computers
- 200% Increase in # of Vehicles
- 75% Increase in Vehicle WGT
- 30% Decrease in MPG

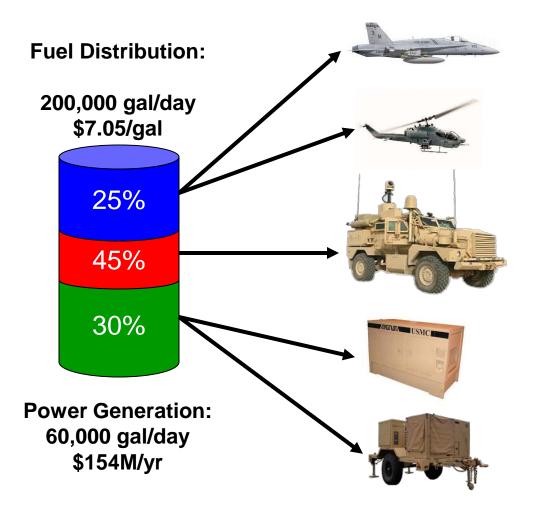


150 Marines conducting operations that 1,000 Marines plus conducted 10 years ago!



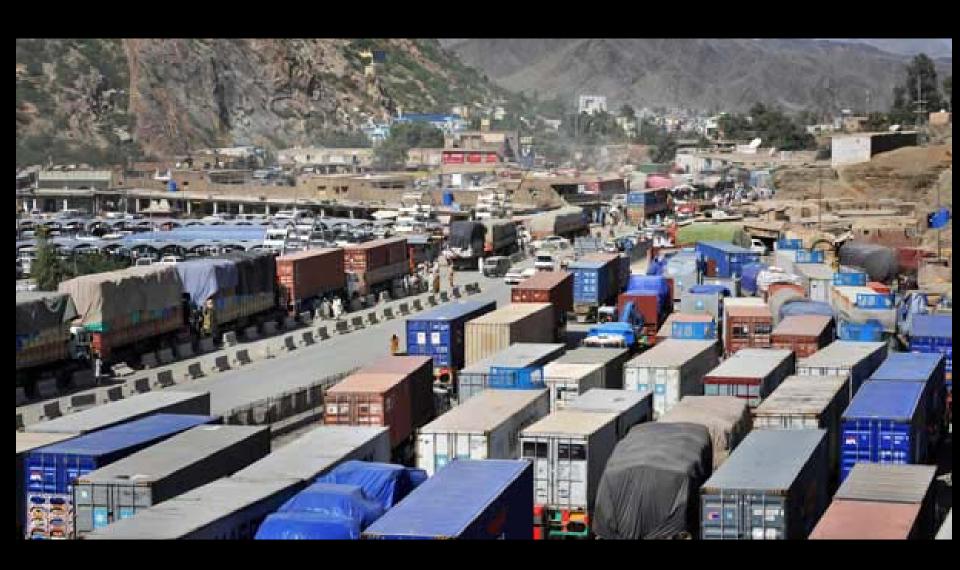
Marines in Afghanistan





#1 Threat: Improvised Explosive Device

Wounded: 1 Marine per 50 Fuel/Water Convoys







USMC OEF Logistics Causalities

24 Mar 10 - 30 Jun 10

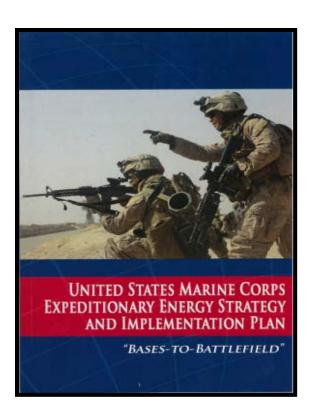


- 299 Fuel/Water Convoys (98 Days)
- 6 Marines WIA hauling Fuel/Water
- 1 Marine WIA per 50 Fuel/Water Convoys



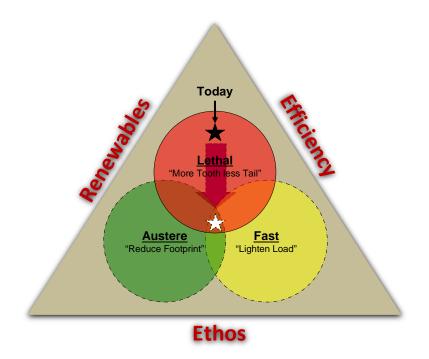
Marine Corps Energy Strategy





Mandate:

Enhance warfighting capability by requiring 50% less fuel by 2025





Long Term Plan



"35th Commandant's Planning Guidance"

Change Ethos + Increase Energy Efficiency + Renewable Energy = Increase Combat Effectiveness

Today Feb 11 Apr 11 2011 2025 Fossil Fuel Alternative Fuel **USMC** Fuel Fuel Fuel **Fuel Expeditionary** 1Gal 1Gal 1Gal 1Gal **Expeditionary Energy, Water, Direct** Fuel Fuel Fuel Fuel **Energy** and Waste 1Gal 1Gal 1Gal 1Gal S&T/R&D Fuel Fuel Fuel Fuel Strategy CBA / ICD 1Gal 1Gal Marine / Day Marine / Day **Future Capability Strategy and Supporting Requirements Require Mobility Fuels Only Documents Being Written in Parallel** 50% From Alternatives

Current Status: CMC signature 23 Feb 11

E2W2 ICD / CBA in staffing

